

IN THE CLAIMS:

Please amend the claims as follows:

1. (Original) A halogen lamp of a 12V type, comprising:
a glass part, a portion of which is a light emitting portion having a space therein and the rest of which is a sealing portion, both portions being made of quartz glass;
an infrared reflective coating formed to cover an outer surface of the glass part;
a filament which, supported by the sealing portion, is provided in the inner space of the light emitting portion;
a molybdenum foil which is embedded in the sealing portion and is electrically connected to the filament; and
a power supply line, one end of which is connected to the molybdenum foil, the other end being exposed to outside the glass part, wherein
 $450\text{mm}^2 \leq S_b \leq 650\text{mm}^2$ and $S_e \geq -0.35S_b + 520$, in which S_b designates an outer surface area of the light emitting portion and S_e designates an outer surface area of the sealing portion, are satisfied.
2. (Original) The halogen lamp of Claim 1, wherein
the light emitting portion of the glass part is either substantially spheroid or substantially spherical.
3. (Original) The halogen lamp of Claim 1 having 45 to 80 wattage inclusive.
4. (Original) A halogen lamp with a reflecting mirror, comprising:
the halogen lamp defined in Claim 1; and
a reflecting mirror which is attached to the halogen lamp so as to surround the halogen lamp.

5. (New) A halogen lamp assembly comprising:
a quartz glass arc tube having an integral hollow light emitting portion and a solid sealing portion;
a multi-layer infrared reflective coating on the light emitting portion;
a light emitting filament supported by the sealing portion and positioned within the hollow of the light emitting portion, the sealing portion having power lines to enable a power source to activate the light emitting filament to provide light, wherein a relationship between an outer surface area, S_b , of the light emitting portion and S_e , an outer surface area of the sealing portion fulfills the following conditions:

$$450\text{mm}^2 \leq S_b \leq 650\text{mm}^2$$

$$S_e \geq -0.35S_b + 520.$$

6. (New) The halogen lamp assembly of Claim 5 wherein the sealing portion has a thin rectangular box shape.

7. (New) The halogen lamp assembly of Claim 6 further including a glass reflecting mirror coated with a multi-layer reflective coating.

8. (New) The halogen lamp assembly of Claim 5 wherein the lamp assembly efficiency is at least 25 lm/w and has a life expectancy rating of at least 4000 hours.

9. (New) The halogen lamp assembly of Claim 5 wherein a range of power is 45 to 80 watts.